

Claims

1. A nucleotide sequence encoding substantially the amino acid sequence shown in Figure 10 (SEQ ID No: 2) or a functional equivalent of said nucleotide sequence.
2. A nucleotide sequence comprising substantially the sequence of B2 shown in Figure 3 (SEQ ID No: 3), or a functional equivalent thereof.
3. A nucleotide sequence comprising substantially the sequence of B4 shown in Figure 3 (SEQ ID No: 4), or a functional equivalent thereof.
4. A nucleotide sequence comprising substantially the sequence of B10 shown in Figure 3 (SEQ ID No: 5), or a functional equivalent thereof.
- ~~5. A nucleotide sequence comprising substantially the sequence of B1 shown in Figure 3 (SEQ ID No: 6), or a functional equivalent thereof.~~
6. A nucleotide sequence encoding substantially the amino acid sequence of B6 shown in Figure 4 (SEQ ID No: 7), or a functional equivalent thereof.
7. A portion of any of the above sequences, comprising at least 500 base pairs and having at least 90% sequence homology to the corresponding portion of the sequence from which it is derived.
- ~~8. A nucleotide sequence comprising substantially the sequence shown in Figure 5 (SEQ ID No: 8), Figure 6 (SEQ ID No: 9) or Figure 7 (SEQ ID No: 10), or a functional equivalent thereof.~~
9. A nucleic acid construct comprising a nucleotide sequence in accordance with any of the preceding claims.

10. A construct according to claim 9, wherein the sequence is operably linked, in sense or antisense orientation, to a promoter sequence.

11. An expression vector comprising a construct according to claim 9 or 10.

12. A host cell into which has been introduced a sequence, construct or vector in accordance with anyone of the preceding claims.

~~13. An amino acid sequence encoded by the nucleotide sequence of anyone of claims 1 to 8.~~

14. A method of altering the characteristics of a plant, comprising introducing into the plant the sequence of any one of claims 1 to 11 operably linked to a suitable promoter active in the plant so as to affect expression of a gene present in the plant.

15. A method according to claim 14, wherein the sequence is linked in the antisense orientation to the promoter.

16. A method according to claim 14 or 15, wherein the plant is a wheat plant.

17. A method according to claim 14, 15 or 16, wherein the characteristic altered relates to the starch content and/or starch composition of the plant.

18. A plant or plant cell having characteristics altered by the method of any one of claims 14 to 17, or the progeny of such a plant or part of such a plant.

19. A plant, plant cell, progeny or part thereof according to claim 18, wherein the plant is a wheat plant.

20. A storage organ from a plant according to claim 18 or 19.

21. A plant, plant cell, progeny or part thereof according to any one of claims 18 to 20,

containing starch having an elevated gelatinisation onset and/or peak temperature as measured by DSC compared to starch from a similar, but unaltered, plant.

~~22. Starch obtainable or obtained from a plant in accordance with any one of claims 18 to 21.~~

23. A method of making altered starch, comprising altering a plant by the method of any one of claims 14 to 17, and extracting therefrom starch having altered properties compared to starch extracted from equivalent, but unaltered, plants.

~~24. Use of starch according to claim 22 in the preparation or processing of a foodstuff, particularly bakery products.~~

~~25. A foodstuff, particularly a bakery product, comprising starch in accordance with claim 22.~~

add
B1